INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP2005/001403

	<u> </u>			
A. CLASSIFIC Int.Cl	ATION OF SUBJECT MATTER B01D53/94, 53/86, B01J23/30, F01N3/10	23/42, 23/745, 23/89, 2	27/053,	
According to International Patent Classification (IPC) or to both national classification and IPC				
B. FIELDS SEARCHED				
Minimum documentation searched (classification system followed by classification symbols)				
Int Cl ⁷ B01D53/86, 94, B01J21/00-38/74, F01N3/10				
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched				
Jitsuyo Shinan Koho 1922-1996 Jitsuyo Shinan Toroku Koho 1996-2005 Kokai Jitsuyo Shinan Koho 1971-2005 Toroku Jitsuyo Shinan Koho 1994-2005				
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)				
C. DOCUMENTS CONSIDERED TO BE RELEVANT				
Category*	JP 09-280012 A (Osaka Gas Co.		1-11	
*	28 October, 1997 (28.10.97),			
	Claim 1; Fig. 1 (Family: none)			
	_			
Y	JP 02-229547 A (Nippon Shokuk Co., Ltd.),	oai Kagaku Kogyo	1-11	
	12 September, 1990 (12.09.90)	!		
	Claims 19, 28; examples & US 5082820 A & EP	0370523 A1		
			. '	
Y	JP 57-127426 A (Nippon Shokul Co., Ltd.),	oai Kagaku Kogyo	1-11	
	07 August, 1982 (07.08.82),			
	Claim 1; examples			
	(Family: none)			
[[] -		C		
Further documents are listed in the continuation of Box C. See patent family annex.				
Special categories of cited documents: "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand to be of particular relevance "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention			ation but cited to understand	
"E" earlier application or patent but published on or after the international filing date		"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive		
"L" document which may throw doubts on priority claim(s) or which is		step when the document is taken alone "Y" document of particular relevance; the		
special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means		"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination		
P" document published prior to the international filing date but later than the		being obvious to a person skilled in the art		
priority dale claimed "&" document member of the same patent family				
Date of the actual completion of the international search Date of mailing of the international search Date of mailing of the international search				
14 Apr	il, 2005 (14.04.05)	10 May, 2005 (10.0)	5.U5 <i>j</i>	
Name and mailing address of the ISA/		Authorized officer		
Japanese Patent Office				
Facsimile No.		Telephone No.		

INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP2005/001403

Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
JP 02-056250 A (Sakai Chemical Industry Co., Ltd.), 26 February, 1990 (26.02.90), Claim 1; example 11 (Family: none)	1-11
JP 50-059282 A (Mitsubishi Chemical Industries Ltd.), 22 May, 1975 (22.05.75), Claim 1; example 7 (Family: none)	1-11
JP 50-157258 A (Japan Gasoline Co., Ltd.), 19 December, 1975 (19.12.75), Claim 1, example 2 & US 4119703 A & GB 1478253 A	1-11
JP 50-053296 A (Mitsubishi Chemical Industries Ltd.), 12 May, 1975 (12.05.75), Claim 1; examples 2, 5 & DE 2443713 A1 & GB 1445239 A	1-11
JP 54-021956 A (Hitachi, Ltd.), 19 February, 1979 (19.02.79), Claim 1 & US 4351811 A & DE 2832002 A1	10
	· ·
	JP 02-056250 A (Sakai Chemical Industry Co., Ltd.), 26 February, 1990 (26.02.90), Claim 1; example 11 (Family: none) JP 50-059282 A (Mitsubishi Chemical Industries Ltd.), 22 May, 1975 (22.05.75), Claim 1; example 7 (Family: none) JP 50-157258 A (Japan Gasoline Co., Ltd.), 19 December, 1975 (19.12.75), Claim 1; example 2 & US 4119703 A & GB 1478253 A JP 50-053296 A (Mitsubishi Chemical Industries Ltd.), 12 May, 1975 (12.05.75), Claim 1; examples 2, 5 & DE 2443713 A1 & GB 1445239 A JP 54-021956 A (Hitachi, Ltd.), 19 February, 1979 (19.02.79), Claim 1